



# DCSTEMFAIR

Science Technology Engineering Math

## Senior Division (Grades 9-12) Results

Category	1 <sup>st</sup> Place	2 <sup>nd</sup> Place	3 <sup>rd</sup> Place	Honorable Mention
Animal Sciences	<b>Daulton Sink</b> School Without Walls High School <i>Sleep Deprivation in <u>Drosophila melanogaster</u></i>	<b>Sudi Rodway</b> School Without Walls High School <i>The Effect of Caffeine on the Life Cycle of a Fruit Fly</i>	<b>Nnedimma Ugochukwu</b> Banneker High School <i>Worms, Worms, and More Worms</i>	
Behavioral & Social Sciences	<b>Tessa Torgovitsky</b> Washington Latin High School <i>How Photo Perception Affects the Likelihood of Being Friended on Facebook</i>	<b>Mickala Wade</b> Washington Mathematics Science Technology Public Charter High School <i>Society vs. Social Networks and Electronics</i>	<b>Zephania Gore</b> Washington Mathematics Science Technology Public Charter High School <i>Green Line Metro</i>	
Biochemistry	<b>Coumba Gueye</b> Washington Latin High School <i>Mold Busters</i>			
Cellular & Molecular Biology	<b>Samuel Palca</b> School Without Walls High School	<b>Julia Highsmith</b> School Without Walls High School	<b>Karen Guevara</b> Banneker High School <i>Extracting DNA from</i>	

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	<i>Finding a Replacement for Fetal Bovine Serum for Bone Marrow Stromal Cells</i>	<i>Repeated Freezing and Thawing of DNA</i>	<i>Bananas</i>	
Chemistry	<b>Ngozi Ugochukwu</b> Banneker High School <i>Measuring Sugar Content of a Liquid with a Laser Pointer</i>	<b>Danny Anwar Glickman</b> McKinley Technology High School <i>The Effect of Temperature on the Conductivity of Water-Based Solutions</i>	<b>Natalie Vicente</b> Washington Latin High School <i>Got Gas</i>	
Computer Science	<b>Kristen Houser</b> Georgetown Visitation High School <i>The Nibble Bot</i>	<b>Nathan Dupree</b> McKinley Technology High School <i>Program Your Evacuation</i>		
Earth & Planetary Science	None awarded for this category			
Energy & Transportation	None awarded for this category			
Engineering	<b>Philemon Mastewal</b> School Without Walls High School <i>Piezoelectrics</i>	<b>Matthew True Haynes</b> School Without Walls High School <i>Point Absorber Mechanism</i>	<b>Alistair Andrulis</b> Washington Latin High School <i>Projectile Aerodynamics</i>	
Environmental Sciences & Management	<b>Amy Vallis</b> School Without Walls High School <i>Improving Seawater Desalination</i>	<b>Arjun Pappajohn</b> School Without Walls High School <i>Composting: An Efficient and Environmentally Sustainable Solution to Natural Waste</i>	<b>Malik Roberts</b> Wilson High School <i>Most Efficient Combinations of Passive Solar Collector Linings and Environmentally Safe Fluids</i>	<b>Waliyda Cole</b> School Without Walls High School <i>The Modern Filter: Using Native and Invasive Water Plants in Order to Clean Water</i>
Mathematical Sciences	<b>Shu Yi Zhu</b> Columbia Heights Education Campus <i>Statistical Analysis of the effect of grade-level and AP exam score</i>	<b>Mira Antwine</b> Phelps High School <i>Rubik's Cube Algorithms</i>		
Medicine & Health	<b>Joseph May</b>	<b>TzeYin Tang</b>		

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Sciences	School Without Walls High School <i>Planarian Regeneration: the Effects of Cautery</i>	Wilson High School <i>Hyperphagia and Obesity Caused by Mutations in the Bdnf Gene Can Be Corrected by Dietary Restriction</i>		
Microbiology	<b>Nia Christian</b> Banneker High School <i>The Three A's of Garlic</i>	<b>Valencia Perry</b> Friendship Collegiate Academy <i>Living Dead</i>		
Physics & Astronomy		<b>Ekram Jiru</b> Banneker High School <i>Atomic Emission Spectrum</i>		
Plant Sciences	<b>Victor Leonard</b> Banneker High School <i>Phosphate Stress on <u>A. thaliana</u></i>	<b>Vanessa Confessor</b> McKinley Technology High School <i>Inhibition of Fungal Growth Using Essential Oils</i>		
Team Category	<b>Damante Singleton</b> <b>Anthony Green</b> <b>Layton Williams</b> Friendship Collegiate Academy <i>NXT as a Robotics Simulator</i>	<b>Mickay Thompson</b> <b>Rickay Thompson</b> <b>Daniel Jones</b> H.D. Woodson High School <i>Anacostia River</i>	<b>Daniel Maliken</b> <b>Anh Vu</b> Wilson High School <i>Blouch: The Blanket with a Pouch</i>	
Grand Award Winner	<b>Daulton Sink</b> School Without Walls High School <i>Sleep Deprivation in <u>Drosophila melanogaster</u></i>	<b>Amy Vallis</b> School Without Walls High School <i>Improving Seawater Desalination</i>	<b>Philemon Mastewal</b> School Without Walls High School <i>Piezoelectrics</i>	<b>Damante Singleton</b> <b>Anthony Green</b> <b>Layton Williams</b> Friendship Collegiate Academy <i>NXT as a Robotics Simulator</i>